28 December 1961

FROM:	Chief, TID/TAB	STATIN1
SUBJECT:	Trip Report on Visit	11 - 20 Dec 61
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ENCLOSURE A

SUMMARY OF ELECTRONIC ASPECTS ENCOUNTERED DURING THE PERIOD

11 December -- 15 December

	Monday 11 December:
	Unpacking circuit cards and assembly in chassis.
	Connection of main leads.
STATINTL	Photocell cables in duct unscreened and running with power leads. Arrangements made for screened cables to be fitted.
	25-way and 2-way cable connecting Selector Unit to machine STATINTL required to be distributed between the 4 type connectors. STATINTL
	This work was initiated.
	Mechanical assembly of tape punch completed.
	Tuesday 12 December:
	X1 grating and reading heads mounted trimmed up and signals obtained on CRT.
	It was not possible at this stage to make the Counters operate because the remote zero setting control on the machine was open circuit STATINTL without the cable which was still unconstructed.
	The operation of the tape punch and the typewriter were checked and found to be OK.
STATINTL	Supression was recommended for the and Contractors on the STATINTL Equipment using diodes and condensers. Components for this purpose
	had to be obtained from suppliers STATINTL
	Wednesday 13 December:
	Y1 grating and reading heads were fitted and a signal obtained on the CRT.
	The 4-way connector cable was completed and attached to themachine STATINTL The X1 and Y1 counters were not live, and X2 and Y2 Zero set connections were open circuit. Wiring fault was tracked down and rectified.
	All the four counters were not live and the X1 and Y1 reading heads were connected to the X2 and Y2 counters and the operation of these checked.

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TATI	The reading head cables were not changed to route the signals through the conduit using the connectors.
	Thursday 14 December:
	All the four counters were checked. The counter and store channels were OK, except for one faulty decade card which was replaced with a temporary spare.
	The check channels were showing up sparious faults.
	Checking showed some defective cards. It was not possible to rectify these with the test facilities available It was, therefore, STATINTL decided to ship back all the checking channels cards for STATINTL retest.
	This would not effect the operation of the main counter and printout channels and would enable calibration tests to proceed.
	Friday 15 December:
	X2 and Y2 gratings and reading heads were mounted and signals set up.
	The printout refused to initiate.
	This was found to be due to intermittent contracts in the six decade STATINTL switch. When this made contact the printout functioned OK.
STAT	Occasional failure of typewriter to provide a feedback signal was due to compression of internal wiring operating the solenoids.
	 These were re-adjusted and the fault cleared.
	The suppression of the motor contractors on the machine was completed and it appeared to be satisfactory.

All the four counters were checked for return to datum and found to be OK.

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ENCLOSURE B

Spare Parts

STAT STATIN	addition to this	e I, there is	a list of recommended spare parts. In recommended the following:
	Item Q	uantity	Description
	1	2	Decade circuit boards
`•	2	2	Storage circuit boards
	3	2	Decimal to ternary converter circuit board
	4	1	Input circuit board
	5	1	Storage pulse generator circuit board
	6	1	Pentade circuit board
	7	1	Ternary compensator circuit board
	8	1	Ternary check circuit board
	9	1	Input check circuit board
·······································	10	1	Photo cell package circuit board
STATINT	L some slight modi		e above list from memory so there may be